INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT 2. 07.

To:

Outokumpu OYJ Intellectual Property Management P.O. Box 27 FIN-02201 Espoo Finland

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing (day/month/year)

07-07-2004

Applicant's or agent's file reference

20021424 wo

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/FI2003/000571

17-07-2003

31-07-2002

Applicant

Outokumpu Oyj et al

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication 2. to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the 3. report (but not of any annexes) and will transmit such translation to those Offices.

REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in som Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary axamination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Patent- och registreringsverket Box 5055

S-102 42 STOCKHOLM Facsimile No. 08-667 72 88 Telex 17978 PATOREG-S

08-782 25 00



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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416								
20021424WO		In the late (I - /w outh/room)							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)							
PCT/FI 2003/000571	17.07.2003	31.07.2002							
International Patent Classification (IPC) or national classification and IPC									
F27D 1/12, F27D 9/00, C21B 7/10									
Applicant									
Outokumpu Oyj et al									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This REPORT consists of a total of	about including this cover sheet								
3. This report is also accompanied by ANNEXES, comprising:									
a Came to the amiliant	and to the International Bureau) a total of	sheets, as follows:							
a (sent to the applicant		we been amended and are the basis of this report							
and/or sheets Administrativ	containing rectifications authorized by this A ve Instructions).	uthority (see Rule 70.16 and Section 607 of the							
shoete which	supersede earlier sheets, but which this Author	ority considers contain an amendment that goes							
beyond the disconnected Supplementa		ed, as indicated in item 4 of Box No. I and the							
<u></u>		number of electronic carrier(s))							
b. (sent to the Internation	onal Bureau only) a total of (indicate type and	g and/or tables related thereto, in computer							
readable form only, a	s indicated in the Supplemental Box Relating	to Sequence Listing (see Section 802 of the							
Administrative Instru									
4. This report contains indications re	elating to the following items:								
Box No. I Basis o	of the report								
Box No. II Priority									
Box No. III Non-es	tablishment of opinion with regard to novelty	, inventive step and industrial applicability							
Box No. IV Lack of	f unity of invention								
Box No. V Reason applica	ned statement under Article 35(2) with regard shility; citations and explanations supporting s	to novelty, inventive step or industrial uch statement							
1	a documents cited	•							
Box No. VII Certain	defects in the international application								
Box No. VIII Certain	observations on the international application								
Date of submission of the demand	Date of completion	n of this report							
10.12.2003	18.06.200	18.06.2004							
Name and mailing address of the IPEA/S	E Authorized office								
Patent- och registreringsverket									
Box 5055 S-102 42 STOCKHOLM	Mårten Hu	lthén/MP							
Facsimile No. +46 8 667 72 88		16 8 782 25 00							

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI 2003/000571

Box	No. I	Basis of the report					
1.	With re	egard to the language, this report is based on the international application in the language in which it was filed, unless ise indicated under this item.					
		This report is based on a translation from the original language into the following language <u>English</u> , which is the language of a translation furnished for the purposes of:					
		international search (under Rules 12.3 and 23.1(b))					
		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55.3)					
2.	furnish	regard to the elements of the international application, this report is based on (replacement sheets which have been ished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" are not annexed to this report):					
	\boxtimes	the international application as originally filed/furnished					
		the description:					
		pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the claims: as originally filed/furnished					
		pages					
		pages					
		pages* received by this Authority on					
		the drawings:					
	لــا	pages as originally filed/furnished					
		pages* received by this Authority on					
		pages* received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
	If iten	n 4 applies, some or all of those sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Claims

Claims

International application No.

PCT/FI 2003/000571

NO

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims Claims	1-18	YES NO
	Inventive step (IS)	Claims	1-18	YES
		Claims		NO NES
	T., december on the shifty (TA)	Claims	1_10	YES

1-18

2. Citations and explanations (Rule 70.7)

Industrial applicability (IA)

Document being considered to be of particular relevance:

D1 GB 2377008

The invention relates to a cooling element and a method of producing the same. A copper housing that is preferably made in one single piece is connected to refractory lining elements in a manner that the lining elements are movable in the vertical direction with respect to the housing.

relates to a cooling panel with refractory D1 (figure 3) material (9) that is attached to copper pipes (2) and fins (4) and a backing plate (2). However, it does not disclose lining elements as stated in the claims of the invention, but a monolithic lining. Therefore, D1 has been reconsidered not to be of particular relevance.

None of the cited documents reveal cooling elements that are movable in the vertical direction with respect to the housing. Consequently, the invention as defined by claims 1 and 17 is novel.

stated difference implies improvements in respect of preventing damage caused by thermal expansion and achieving good contact between the fireproof lining and the cooling element housing. Consequently, the invention as defined by claims 1-18 is considered to involve an inventive step. The also considered to fulfil the criteria of invention is industrial applicability.